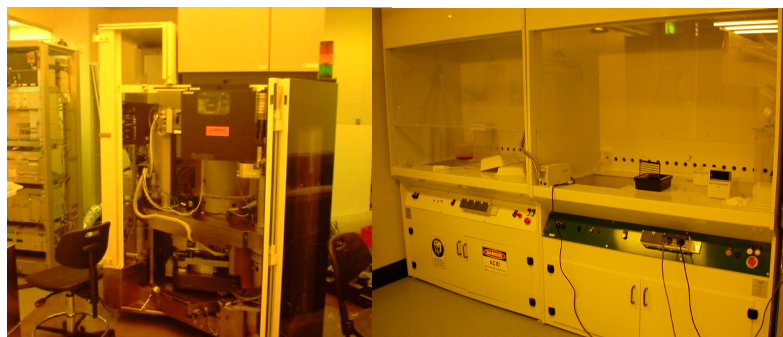


FOR AUSTRALIAN CUSTOMERS

Bandwidth Foundry International is part of the Australian National Fabrication Facilities [ANFF] under the National Collaborative Research Infrastructure Strategy [NCRIS] program and Educational Infrastructure Fund [EIF].

Bandwidth Foundry is also part of the newly established Australian Institute of Nanoscience at the University of Sydney. If you are an Australian Institution performing research you may be able to access Bandwidth Foundry facilities at significantly reduced rates.

Please contact us if you would like to access facilities or produce photomasks, wafers and other devices under these programs.



TRY US OUT

Still not sure?

We are eager to show you our capabilities and can provide you with a sample photomask or wafer upon request.

If you do research, or are in the following industries, you can benefit from our services: Photonics, Photovoltaics, Semiconductors, MEMs, Telecommunications, Nano-technology, Nano-biotechnology, Optoelectronics, Quantum electronics, Biosensors, Biomedical applications, Astrophysics, Microfluidics, Nano-fabrication, Silicon carbide non-volatile RAM, Lift off process for solar cells, LED surface structuring etc

CONTACT US

For further information or a quote, please contact:

Bandwidth Foundry International Pty Ltd
Suite 3, Bio-Medical Building
1 Central Avenue
Australian Technology Park
Eveleigh, NSW 2015, Australia

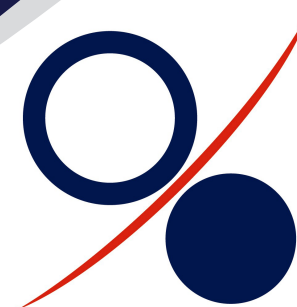
Tel: + 61 (0)2 8374 5300
Fax: + 61 (0)2 8374 5301
Email: bfi.sales@bwfoundry.com
Web: www.bwfoundry.com

To make your life easier, we also take MasterCard and Visa

Bandwidth Foundry International's mandate is: To develop, maintain and make available state of the art fabrication facilities for research, and the manufacture of devices for research, with particular emphasis on micro- and nano-fabrication facilities for photonics, electronics, astrophysics, quantum and bio-medical sciences.

BANDWIDTH FOUNDRY INTERNATIONAL PTY LTD

A Wholly Owned Company of the University of Sydney



BANDWIDTH FOUNDRY

PHOTOMASKS, WAFERS AND OTHER
NEW SERVICES, COMPETITIVE PRICES,
HIGH QUALITY, FAST TURN-AROUND,
CONFIDENTIALITY AND DISCRETION, CUSTOM
MANUFACTURING BY A FRIENDLY SMALL BUSINESS



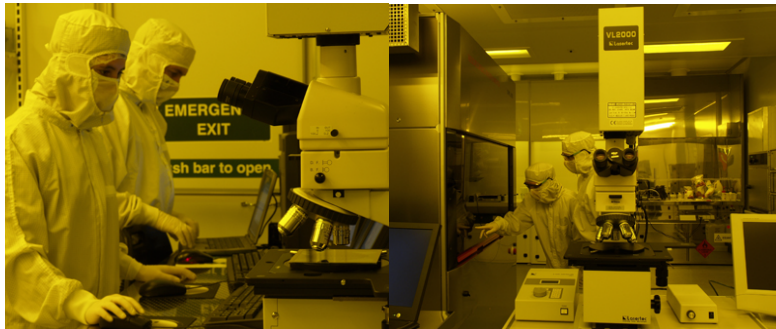
An Australian National
Fabrication Facility (ANFF) Node ANFF

THE RIGHT DECISION

To keep ahead of the competition you need to turn results around fast, getting it right first time, and keeping projects to budget. When you need photomasks, look no further than Bandwidth Foundry International to keep you on track. We offer a variety of turn-around times and invest the highest standards of care and quality into all of our photomasks. Our prices are competitive, so with Bandwidth Foundry International as your partner you can go further with your existing resources.

BANDWIDTH FOUNDRY PHOTOMASKS & WAFERS

At Bandwidth Foundry International we make photomasks for semiconductor, MEMS, microfluidics, astrophysics, and photonics industries using state-of-the-art Heidelberg DWL 200. Typical applications of our masks are printing on mask aligners or 1:1 projection aligners.



THE BANDWIDTH FOUNDRY ADVANTAGE

Located in Sydney, Australia, Bandwidth Foundry is only minutes from Sydney International Airport and only half a day's flight from the USA, Asia and Europe, and with favourable time-zone differences, you can send us your designs at the close of business your time, and urgent delivery, we can be writing your new photomask while you sleep.

IP SECURITY

Respect for customer intellectual (IP) is at the foundation of our business, and Australian IP law and customs are world standard. Confidentiality in all aspects of customer relationships is assured, and we are happy to meet your non-disclosure requirements.

Preferred design formats: GDSII or DXF
Other design formats TDB, CIF, DWG

Writing Resolutions

Standard - features down to 2.5 micron
High - features down to 1 micron
Ultra-High - features down to 500 nm

Substrates:

Stock items are:

3" square 0.06" thick soda lime only
4" square 0.06" thick quartz and soda lime
5" square 0.09" thick quartz and soda lime
6" square 0.09" thick quartz and soda lime
7" square 0.12" thick quartz and soda lime

Other substrates and sizes are available on request

General limitations are:

Maximum size 200mm square
Maximum 6 mm thick

Turn-around:

Standby: 20 working days
Standard: 10 working days
Urgent: 3 working days
Other: please ask

Greyscale Lithography

Material: Photoresist on substrate Grey Levels: 64
Resolution: Minimum feature size: 0.8µm
Minimum tolerance: \pm /100nm
Best writing grid: 20 nm
Edge roughness 3σ: 120 nm

OTHER SERVICES

Bandwidth Foundry International also offers the following services

- Direct writing services
- Wafer Lithography
- PIC Development
- PDMS stamps for soft-lithography
- Microfluidic device development
- MEMS device development
- Design services
- Profiling
- Photomask cleaning
- Spin coating
- SEM Services
- New products and services using the i-line stepper from mid 2011
- RIE and sputtering capability from end 2011

ASML pas 5500/100 i-line Stepper

Stepper Applications

- 4" Silicon wafers stock
- 6" Silicon wafers stock
- Customer supplied wafers also written

Stepper Specifications

- 5 x 1 reduction
- Minimum resolution 400 nm
- Up to 6" wafers
- Quartz halogen lamp
- 1" by 1" steps

